

## Xinuo (John) Zhao

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### WORK EXPERIENCE

#### **Product Engineer** (February 2017 – Present)

Pro-Vision Video Systems, Byron Center, MI

- Perform research and development on new camera and DVR products
  - o Find overseas suppliers for product development
  - o Assist in sourcing products from overseas
  - o Communicate with overseas suppliers regarding product design, development, and manufacturing
  - o Daily communication with Chinese speaking electrical engineers and software developers
  - o Translate technical documentation between English and Chinese
- Manage, direct and implement the development and improvements to camera and DVR products
  - o Develop and/or update product specifications, procedures, guides, etc.
  - o Resolve technical quality and production problems through remote and onsite communication with suppliers
  - o Provide engineering support to technicians, sales, customer service, production and purchasing teams
  - o Develop Web service to parse and serialize XML data using C/C++
  - o Develop Web UI to enhance DVR efficiency and ease of use
  - o Adjust camera configurations through terminal for better audio quality and viewing angle
  - o Generate easy-to-use camera and DVR firmware for customer use

#### **Principal Hardware Engineer** (January 2016 – January 2017)

Medforall - Information Technology and Service, Columbus, OH

- Led hardware development, optimization, and validation; worked in a close interdisciplinary team
- Performed schematic capture, symbol creation, and PCB layout design of multiple devices
- Programmed environmental and motion sensor devices using Python and C

#### **Graduate Research Associate** (August 2015 – May 2016)

Department of Electrical & Computer Engineering, Ohio State University, Columbus, OH

- Researched sensor and monitoring technologies in healthcare, industrial, and environmental fields
- Managed microcontroller based projects for new graduate students' individual study and project management course

### EDUCATION

**The Ohio State University**, Columbus, OH

GPA: 3.3

M.S. Electrical & Computer Engineering (embedded systems), Graduation: May 2016

**Pittsburg State University**, Pittsburg, KS

GPA: 3.8

B.S. Electronics Engineering Technology, Minor Mathematics, Graduation: May 2014

### ACADEMIC ENGINEERING PROJECTS

#### **Airborne Soil Moisture Mapping** OSU & MIT Lincoln Laboratory (August 2014 – May 2016)

- Developed a 4-layer microcontroller PCB for an airborne radiometer to collect position and altitude data
- Implemented the data handling system with an ARM Cortex-M4 MCU, ADC, BME280 Barometer, and GPS

#### **Wearable Health Monitoring Device** OSU & Fuse by Cardinal Health (June 2015 – May 2016)

- Developed a wearable device that monitors a user's health condition (heart rate, muscle tension, etc.)
- Designed the hardware (PCB) for the wearable device and participated in firmware development

#### **Temperature Monitoring System for OSU Airport** OSU (September 2015 – May 2016)

- Developed a monitoring system using i-Q350 sensors from Identec Solutions to test if the ambient temperature near airplane runway (in winter) is suitable for LED edge lights

#### **iTap Drink Dispensing System** Pittsburg State University (August 2013 – May 2014)

- Built an automatic drink dispensing system by implementing a microcontroller and PLC system controlled by a mobile application through Bluetooth, which led to the function of dispensing a certain amount of liquid after receiving orders

### QUALIFICATIONS

- Programming: C/C++, JavaScript, Java, AngularJS, HTML&CSS, Python, Node.js
- Software: Visual Studio, Eclipse, Android Studio, Xcode, Git, Eagle CAD, OrCAD and Allegro
- Hardware: GC6500, MT7620, MSP430, ARM Cortex M, BeagleBone, Simblee, CC2650 SensorTag, XBee
- Hands-on rapid prototyping skills including soldering, reflow and rework of PTH and SMD components
- Experience with laboratory equipment such as multimeter, logic analyzer, oscilloscope, etc.
- Experience with Android and iOS app development and website development